PoE and PoE+ Giga-McBasic

10/100/1000 Mbps PoE & PoE+ Switching Media Converter

RoHS Compliant

MEDIA CONVERSION

Supporting the IEEE 802.3af and 802.3at standards, the multi-port PoE and PoE+ Giga-McBasic media converters offer unparalleled installation flexibility and cost-savings.

Features and Benefits

Flexible Solution

- Connects 10/100/1000 Mbps copper to 1000 Mbps fiber or 10/100 fiber SFP or 10/100/1000 Mbps copper SFP
- Supports Jumbo Frames (up to 10240 bytes)
- Rugged standalone metal enclosure with internal power supply
- Multiple mounting options (desktop, wallmount or rackmount)
- For multimode, single-mode, single-strand and CWDM fiber
- Features configurable PoE reset on Fiber Loss of Signal (LOS)

Power Options

- Supports IEEE 802.3af PoE (15.4W) and IEEE 802.3at PoE+ (25.5W) standards
- Internal AC power supply
- Significant cost-savings; no need to extend existing power/cabling to supply power to a device

Plug-and-Play Operation

- User-friendly Auto Negotiation technology
- Provides greater installation flexibility; choose the best location for a powered device
- Auto-Cross MDI/MDIX offered on copper ports

** SFPs sold separately*

The PoE and PoE+ Giga-McBasic are the perfect solutions for network applications that require Power over Ethernet for locations inside buildings where PoE is required to power an Ethernet device. Their small, table-top design and durability make them perfect for installation anywhere space is limited. Additionally, both units are manufactured with an internal AC power supply. This feature significantly increases reliability over products that use awkward, external AC/DC power transformers.

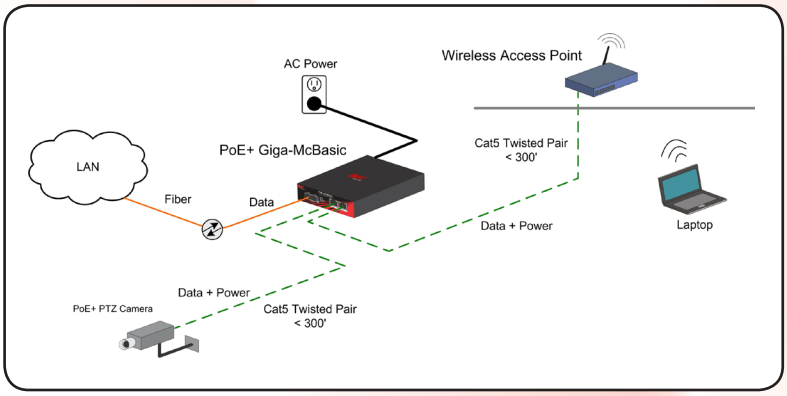
The PoE Giga-McBasic unit comes with one SFP or fixed fiber transceiver, one PoE/PSE 10/100/1000Base-T copper port that provides 15.4 Watts of power with data, and one 10/100/1000 Mbps copper port to connect a non-PoE unit to the same fiber uplink.

The PoE+ Giga-McBasic unit comes with one SFP or fixed fiber transceiver and two PoE/PSE 10/100/1000Base-T copper. Each port provides 25.5 Watts of power with data.

As a fiber-fed media converter, it provides both power and data to a remote device over standard CAT5, eliminating the need for additional power to the remote device. The copper ports Auto Negotiate to the connected device's speed and duplex mode: 10 Mbps, 100 Mbps or 1000 Mbps, and HDX or FDX (including Flow Control). Additionally, both models support jumbo frames up to 10240 bytes.

Application Example

Utilizing Power over Ethernet Plus technology, the PoE+ Giga-McBasic functions as the power source (PSE). Both copper ports are capable of sending data and 25.5 Watts of apower to the remote Wireless Access Point and the PTZ security camera.



Technical Specifications

PoE / PoE+ Giga-McBasic

- IEEE 802.3 10Base-T twisted pair
- IEEE 802.3u 100Base-TX twisted pair
- IEEE 802.3af Power over Ethernet
- IEEE 802.3at Power over Ethernet Plus
- IEEE 802.3u Auto-Negotiation
- RFC-2474
- RFC-2475 DiffServ QoS
- Plug-and-play operation
- Accepts RJ-45 and SFP or SC connectors
- 50/125µm or 62.5/125µm multi-mode fiber
- 9/125µm single-mode fiber
- Single-strand fiber and CWDM models
- FX and TX Auto Negotiation
- AutoCross for MDI/MDIX
- MTU: Supports Jumbo Frames up to 10240 bytes

Dimensions

1.46"H x 4.76"W x 7.32"D
(3.71 cm x 12.09 cm x 18.59 cm)

Power Characteristics

PoE Giga-McBasic
Consumes less than 10 Watts (heating) plus PSE power
IEEE802.3af/at Power to field <50 Watts (2x24.5 W)
PoE+ Giga-McBasic
Consumes less than 10 Watts (heating) plus PSE power
IEEE802.3af Power to field <15.5 Watts

Connectors:

- RJ-45 and SFP or SC

Regulatory Approvals:

- FCC Class A
- UL/cUL, CSA, CE

Operating Temperature:

+32° to +122° F (0° to +50° C); *PoE Giga-McBasic*
+32° to +104° F (0° to +40° C); *PoE+ Giga-McBasic*

Storage Temperature:

-40° to +185° F (-40° to +85° C)

Humidity:

5% – 95% (non-condensing)

Shipping Weight:

1.3 lbs (0.58 kg)

Input Specifications:

100-240 ±10% VAC,
50/60Hz, 0.5A to 0.2A (*PoE Giga-McBasic*)
50/60Hz, 1.6A to 0.7A (*PoE+ Giga-McBasic*)

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the DISTANCE represents an approximate fiber distance based on industry-standard fiber attenuation specifications. Actual distances will vary for each installation. For complete power budgets and information on calculating specific distances, visit www.imcnetworks.com/go/fcs or contact IMC Networks Fiber Consulting Services at 949-465-3000.

Ordering Information

PART #	DESCRIPTION	DISTANCE
PoE+ Giga-McBasic		
852-10911	PoE+ Giga-McBasic, 2TX/SFP (requires one SFP/1250 module) §	Varies
852-10912	PoE+ Giga-McBasic, 2TX/SX-MM850-SC	220/550 m
852-10913	PoE+ Giga-McBasic, 2TX/LX-MM1300-SC	2 km
852-10914	PoE+ Giga-McBasic, 2TX/LX-SM1310-SC	10 km
852-10915	PoE+ Giga-McBasic, 2TX/LX-SM1310/PLUS-SC	40 km
852-10916	PoE+ Giga-McBasic, 2TX/LX-SM1550/LONG-SC	80 km
852-10917	PoE+ Giga-McBasic, 2TX/LX-SM1550/XLONG-SC	100 km
PoE+ Giga-McBasic Single-Strand Fiber*		
852-10920	PoE+ Giga-McBasic, 2TX/SSLX-SM1310-SC (1550 rcv)	15 km
852-10921	PoE+ Giga-McBasic, 2TX/SSLX-SM1550-SC (1310 rcv)	15 km
852-10922	PoE+ Giga-McBasic, 2TX/SSBX-SM1310-SC (1490 rcv)	10 km
852-10923	PoE+ Giga-McBasic, 2TX/SSBX-SM1490-SC (1310 rcv)	10 km
852-10924	PoE+ Giga-McBasic, 2TX/SSLX-SM1310/PLUS-SC (1550 rcv)	40 km
852-10925	PoE+ Giga-McBasic, 2TX/SSLX-SM1550/PLUS-SC (1310 rcv)	40 km
852-10926	PoE+ Giga-McBasic, 2TX/SSBX-SM1490/PLUS-SC (1310 rcv)	30 km
852-10927	PoE+ Giga-McBasic, 2TX/SSBX-SM1310/PLUS-SC (1490 rcv)	30 km
852-10928	PoE+ Giga-McBasic, 2TX/SSLX-SM1490/LONG-SC (1550 rcv)	70 km
852-10929	PoE+ Giga-McBasic, 2TX/SSLX-SM1550/LONG-SC (1490 rcv)	70 km

PART #	DESCRIPTION	DISTANCE
PoE Giga-McBasic		
852-10811	PoE Giga-McBasic, 2TX/SFP (requires one SFP/1250 module) §	Varies
852-10812	PoE Giga-McBasic, 2TX/SX-MM850-SC	220/550 m
852-10813	PoE Giga-McBasic, 2TX/LX-MM1300-SC	2 km
852-10814	PoE Giga-McBasic, 2TX/LX-SM1310-SC	10 km
852-10815	PoE Giga-McBasic, 2TX/LX-SM1310/PLUS-SC	40 km
852-10816	PoE Giga-McBasic, 2TX/LX-SM1550/LONG-SC	80 km
852-10817	PoE Giga-McBasic, 2TX/LX-SM1550/XLONG-SC	100 km
PoE Giga-McBasic Single-Strand Fiber*		
852-10820	PoE Giga-McBasic, 2TX/SSLX-SM1310-SC (1550 rcv)	15 km
852-10821	PoE Giga-McBasic, 2TX/SSLX-SM1550-SC (1310 rcv)	15 km
852-10822	PoE Giga-McBasic, 2TX/SSBX-SM1310-SC (1490 rcv)	10 km
852-10823	PoE Giga-McBasic, 2TX/SSBX-SM1490-SC (1310 rcv)	10 km
852-10824	PoE Giga-McBasic, 2TX/SSLX-SM1310/PLUS-SC (1550 rcv)	40 km
852-10825	PoE Giga-McBasic, 2TX/SSLX-SM1550/PLUS-SC (1310 rcv)	40 km
852-10826	PoE Giga-McBasic, 2TX/SSBX-SM1490/PLUS-SC (1310 rcv)	30 km
852-10827	PoE Giga-McBasic, 2TX/SSBX-SM1310/PLUS-SC (1490 rcv)	30 km
852-10828	PoE Giga-McBasic, 2TX/SSLX-SM1490/LONG-SC (1550 rcv)	70 km
852-10829	PoE Giga-McBasic, 2TX/SSLX-SM1550/LONG-SC (1490 rcv)	70 km

* These products have single-strand fiber technology.
Deploy in pairs, or connect to another compatible IMC Networks single-strand fiber product.
For more information go to: www.imcnetworks.com/products/SSFX.cfm

§ SFP modules are sold separately. For more information on IMC Networks' SFPs,
go to: www.imcnetworks.com/Products/product.cfm?family=32

CWDM models are also available. Check website for part numbers and details.

PART #	DESCRIPTION
Rackmount/Wallmount Accessories	
895-39226	McBasic, MediaChassis, AccessEtherLinX Rackmount Brackets
895-39227	McBasic, MediaChassis, AccessEtherLinX Wallmount Brackets
895-39228	McBasic, MediaChassis, AccessEtherLinX x3 Rackmount Shelf
895-39949	McBasic, iMediaChassis/3, MediaChassis, AccessEtherLinX Rackmount Shelf

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